PREDPOL RADAR

Introduction to Radar Analytics

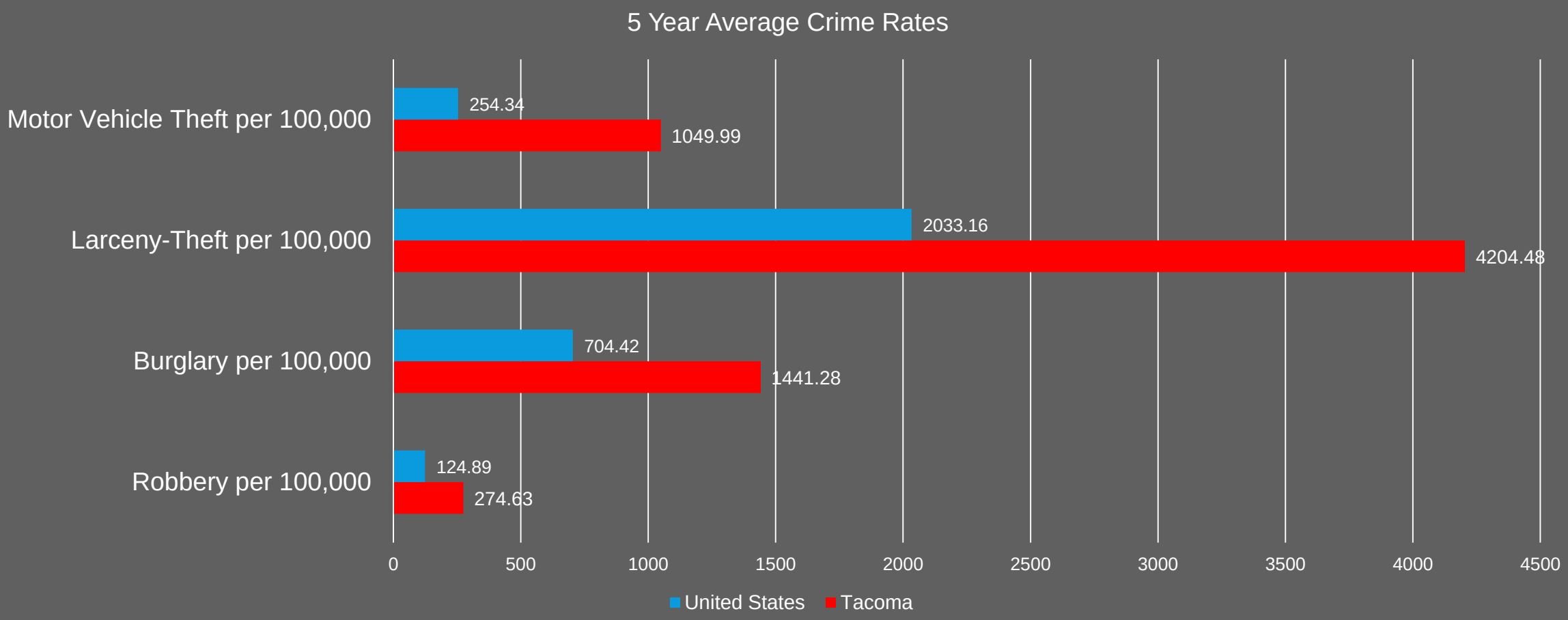
AGENDA

- Statistics overview
- Review PredPol Offenses
- Discuss where it fits with TPD's data-driven framework
- Demo features
- Update on PredPol

WHY DO WE NEED MORE STATS?

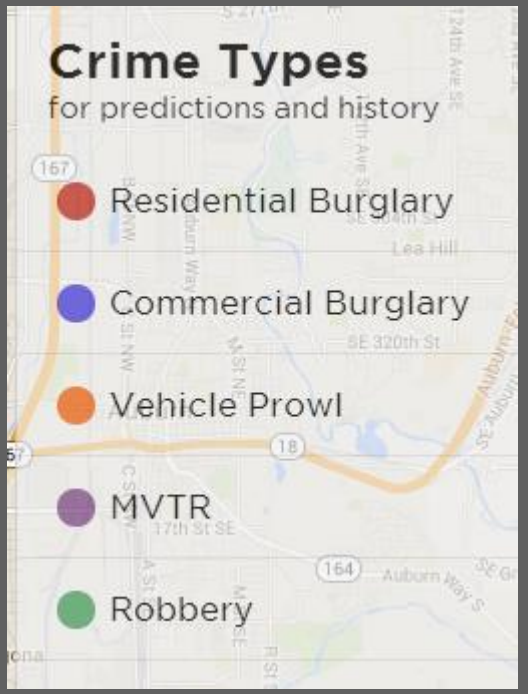
- Biggest bang for buck: SAVE MONEY
- Stats = Indicators
- Complexity requires multiple indicators
- Analysis fills in the gaps
- Clearer picture of where at, easier to know where to go
- Reduces the risk in decision making

GOAL: PROPERTY CRIME 10% ⬇

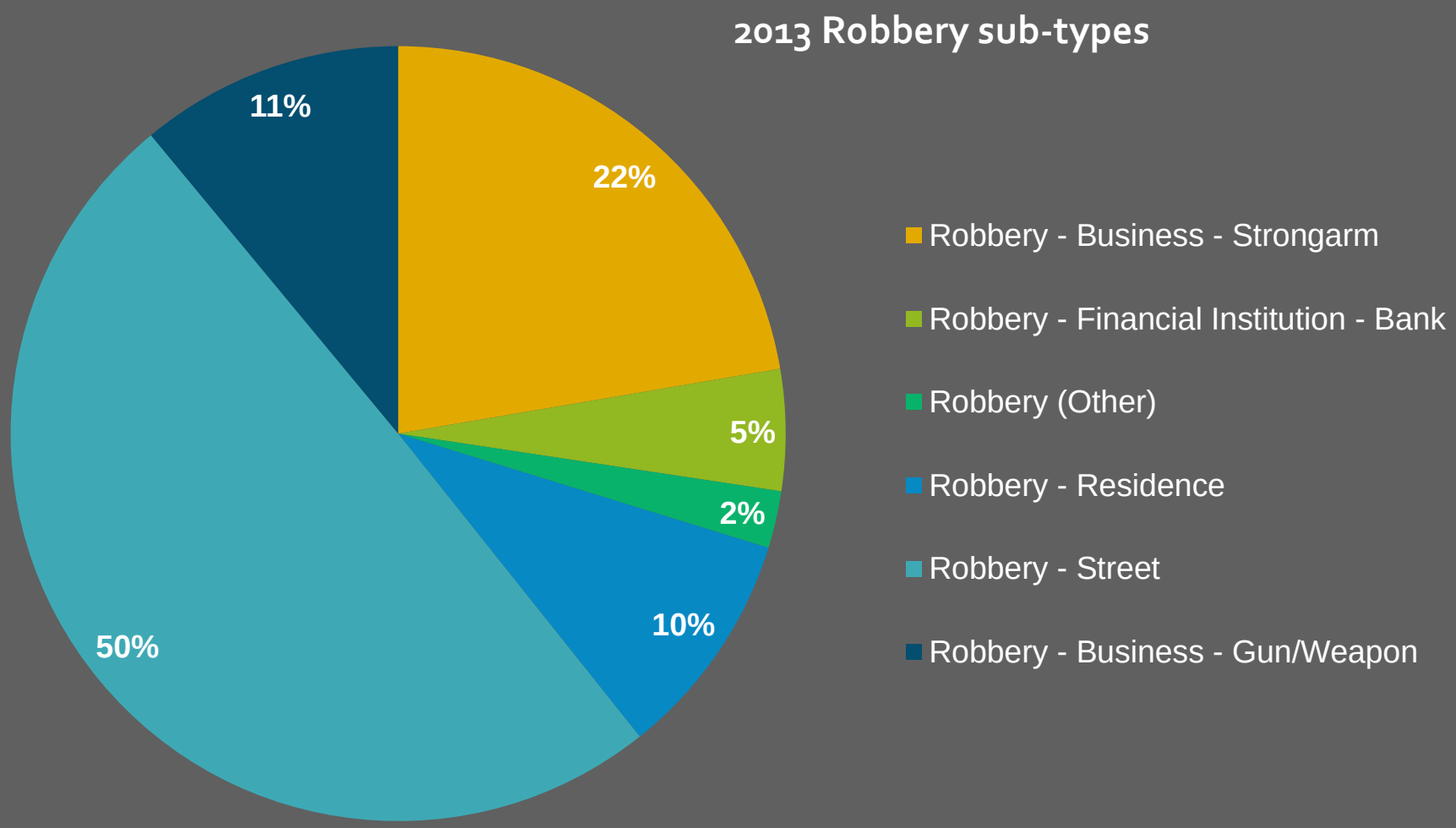


PREDPOL OFFENSES

- High volume of property crime (2-4x National Average)
- Best fit for PredPol tool
- Subsets of Crime Categories
  - Residential Burglary: single family residences & garages
  - Commercial Burglary
  - Vehicle Prowl
  - Motor Vehicle Theft
  - Robbery: Does not include business strong-arm & bank robberies



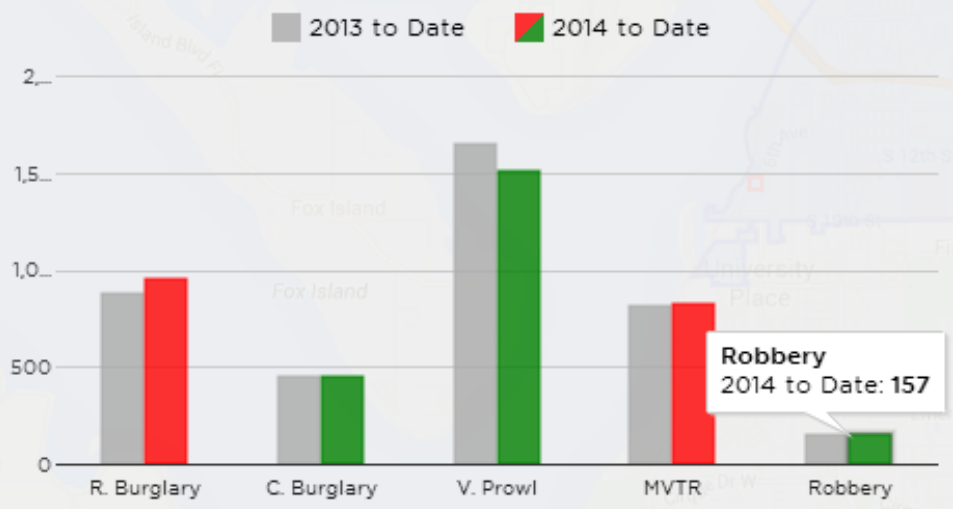
WHY SUBSETS OF CRIME OFFENSES?



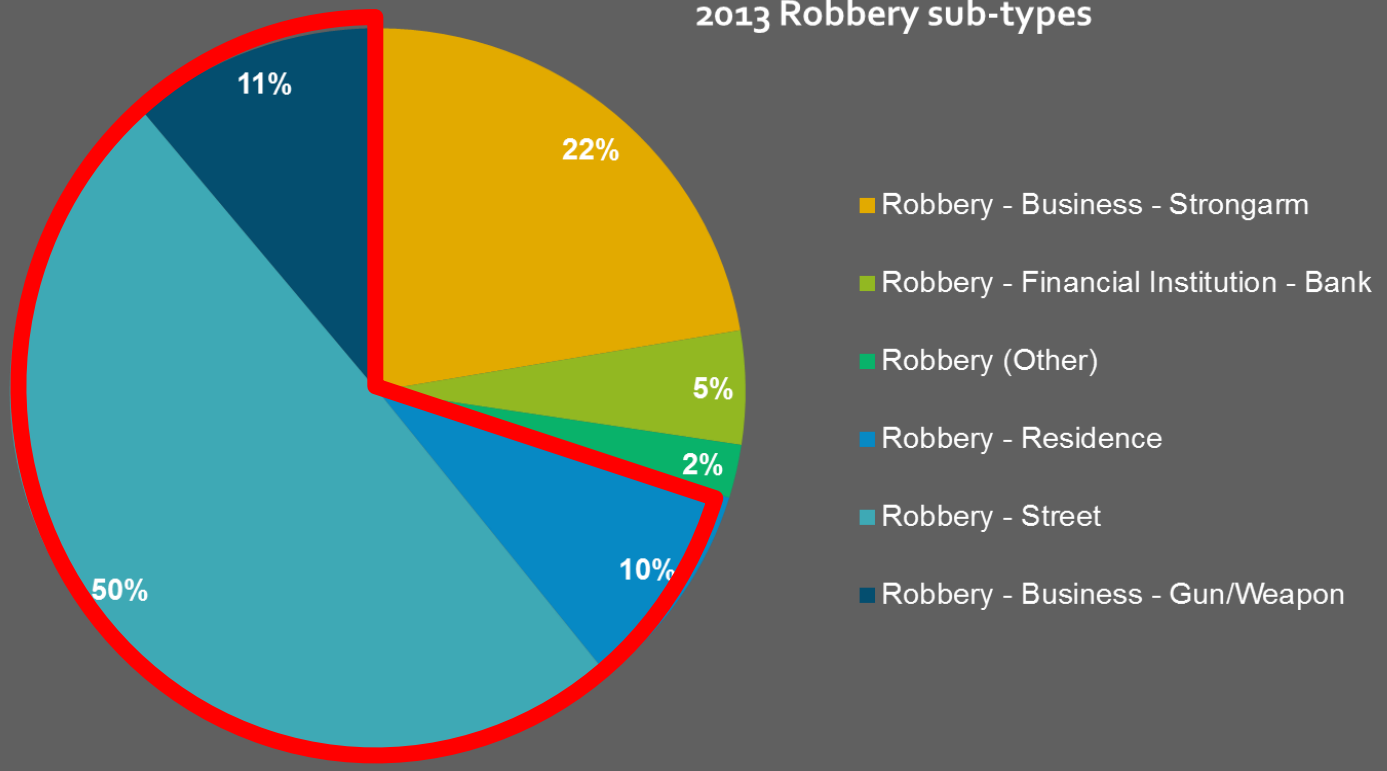
PREDPOL Radar

Total Crimes

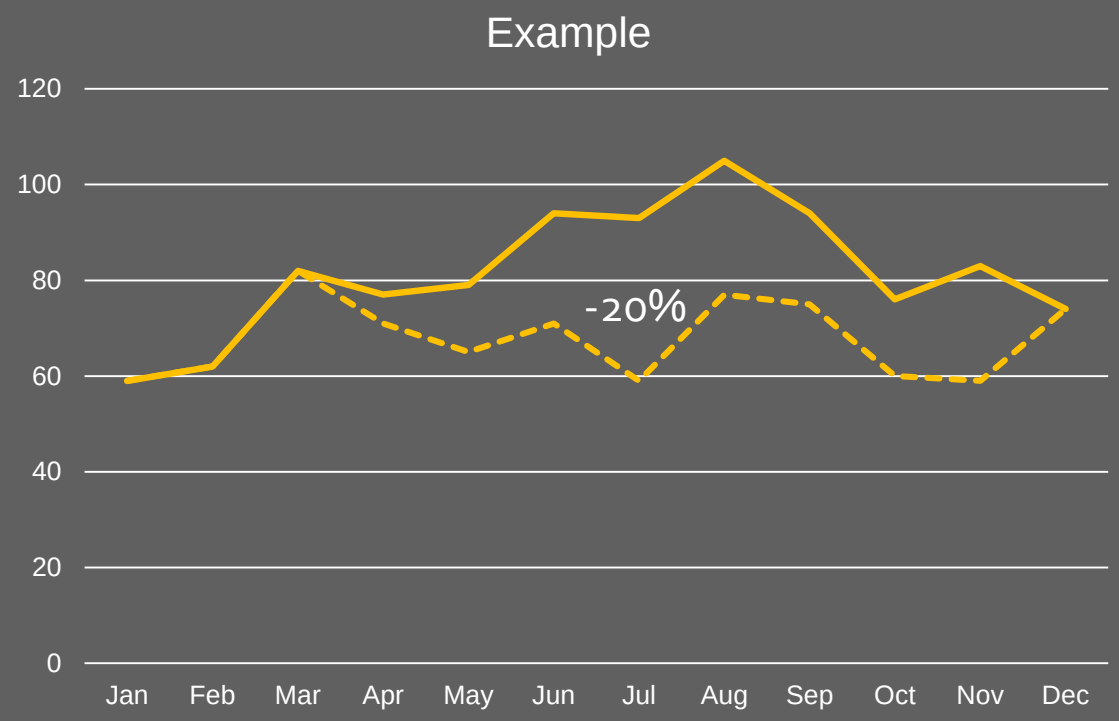
Type	2013 to Date	2014 to Date	Change
Residential Burglary	885	962	+9 %
Commercial Burglary	456	455	0 %
Vehicle Prowl	1661	1520	-8 %
MVTR	820	834	+2 %
Robbery	164	157	-4 %
Total	**3986**	**3928**	-1 %



Year To Date | Last Month | Last Week



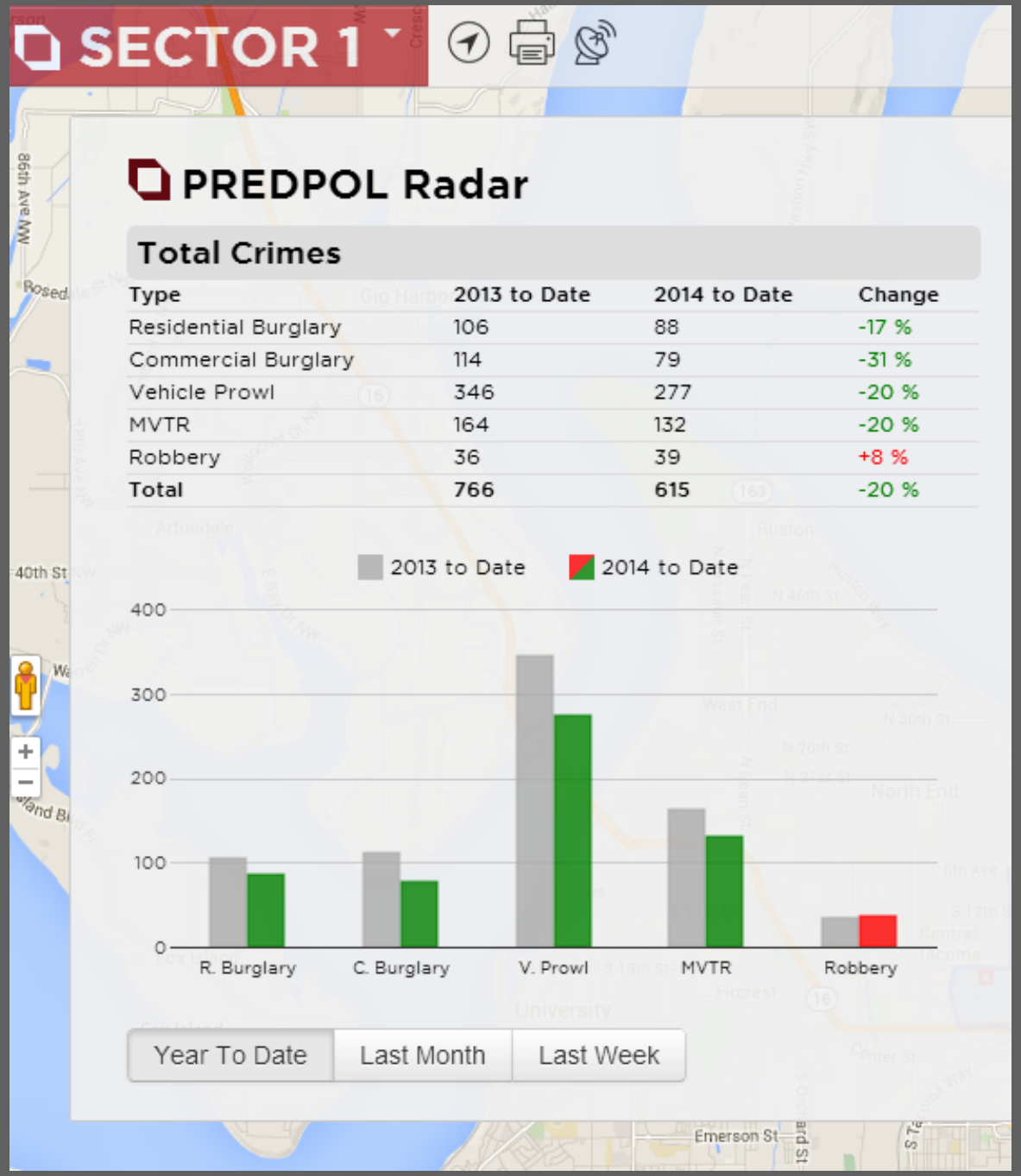
TCCS FRAME WORK



PredPol allows for a more focused response to spikes to block high probability criminal opportunities.

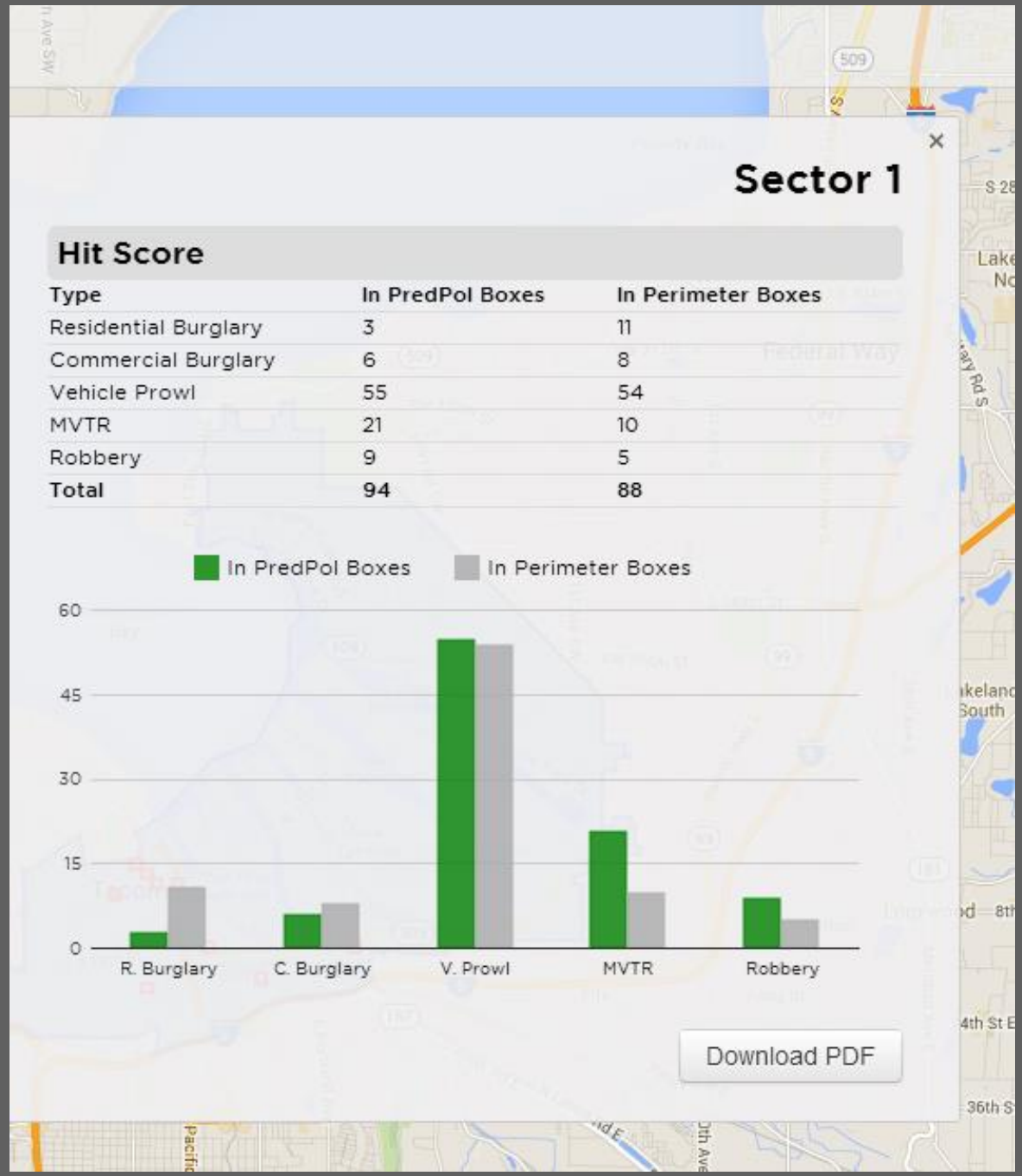
INTEGRATION

- PCR & Self-initiated
- Radar & Flare-ups
- TCCS Priorities
- General PredPol Directive



- Crime rate for the PredPol offenses (again, a subset of larger categories)
- Choose geographic area and time frame
- Crime rate guides deployment strategies
  - Use in conjunction with TCCS
  - Can help prevent TCCS spikes
- NOT an indicator of PredPol effectiveness
  - Too much variance in frequency of PredPol being used or not

- Counter Intuitive
- LOWER hit score is BETTER
  - Think golf score
- Indicates how many incidents occurred in these high probability areas
  - if officers these PredPol boxes disrupting/preventing crime fewer incidents = lower Hit Score
- NOT an indicator of PredPol accuracy
- Useful in evaluating dosage:
  - Officers getting to the boxes
  - Getting quality time in the box
  - Opportunities for long-term prevention (e.g. CPTED)



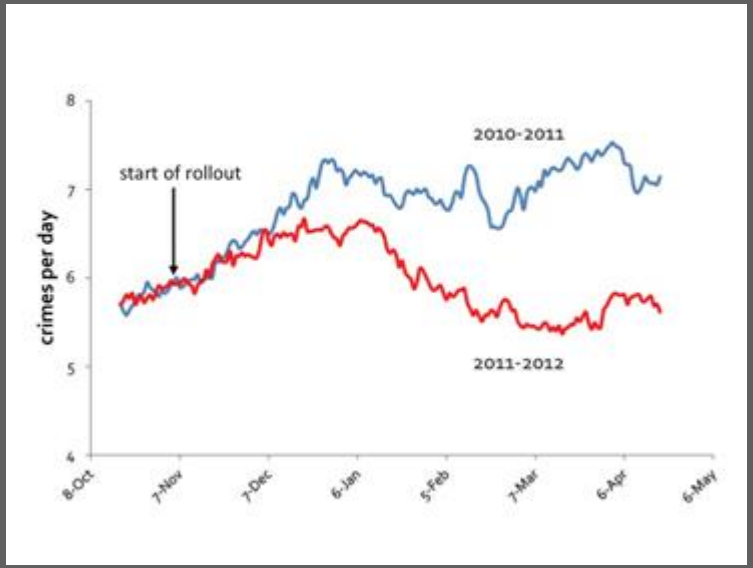
DEMO

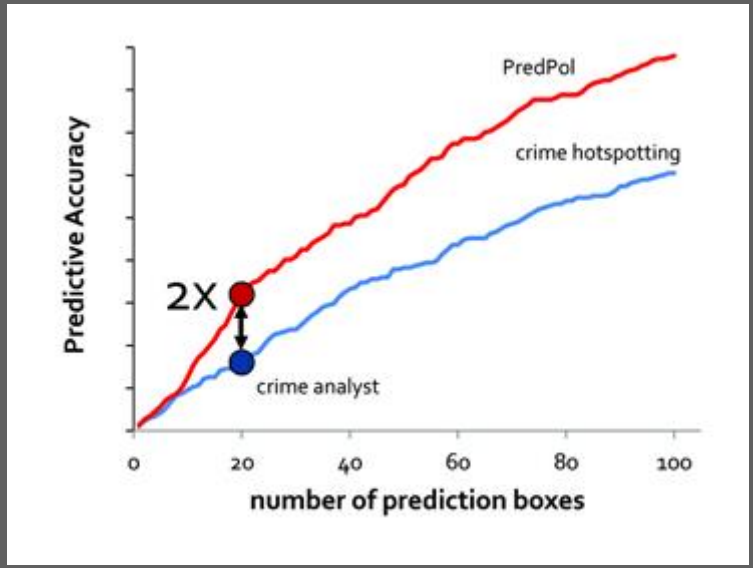
PredPol Radar

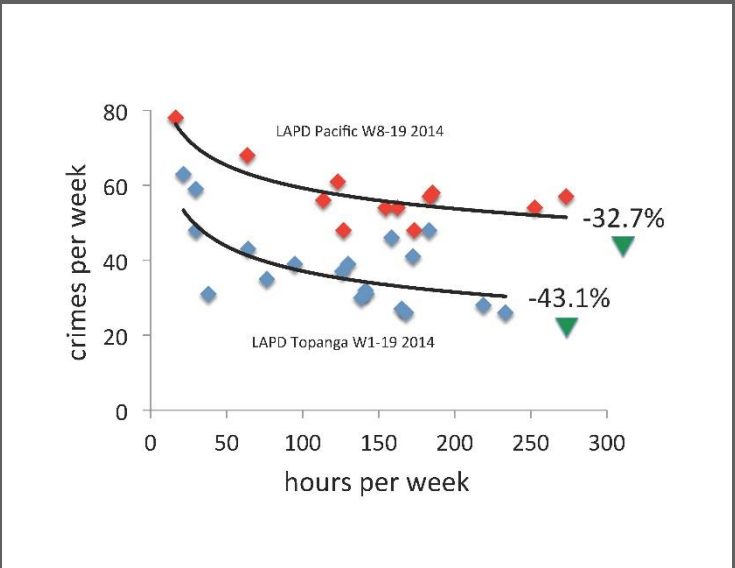
PREDPOL FAQS

Frequently Asked Questions

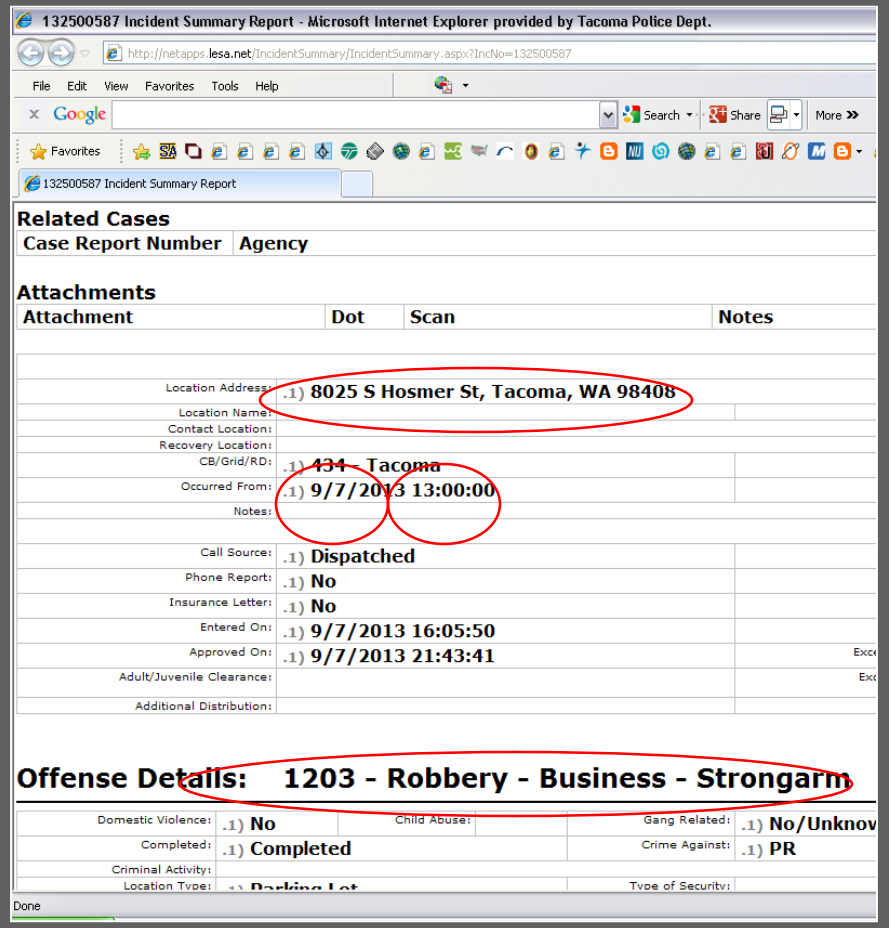
WHY CAN'T WE MEASURE LIKE LAPD?







WHY OCCASIONAL RANDOM BOX?


132500587 Incident Summary Report - Microsoft Internet Explorer provided by Tacoma Police Dept.

http://netapps.lesa.net/IncidentSummary/IncidentSummary.aspx?IncNo=132500587

File Edit View Favorites Tools Help

132500587 Incident Summary Report

Related Cases

Case Report Number	Agency

Attachments

Attachment	Dot	Scan	Notes

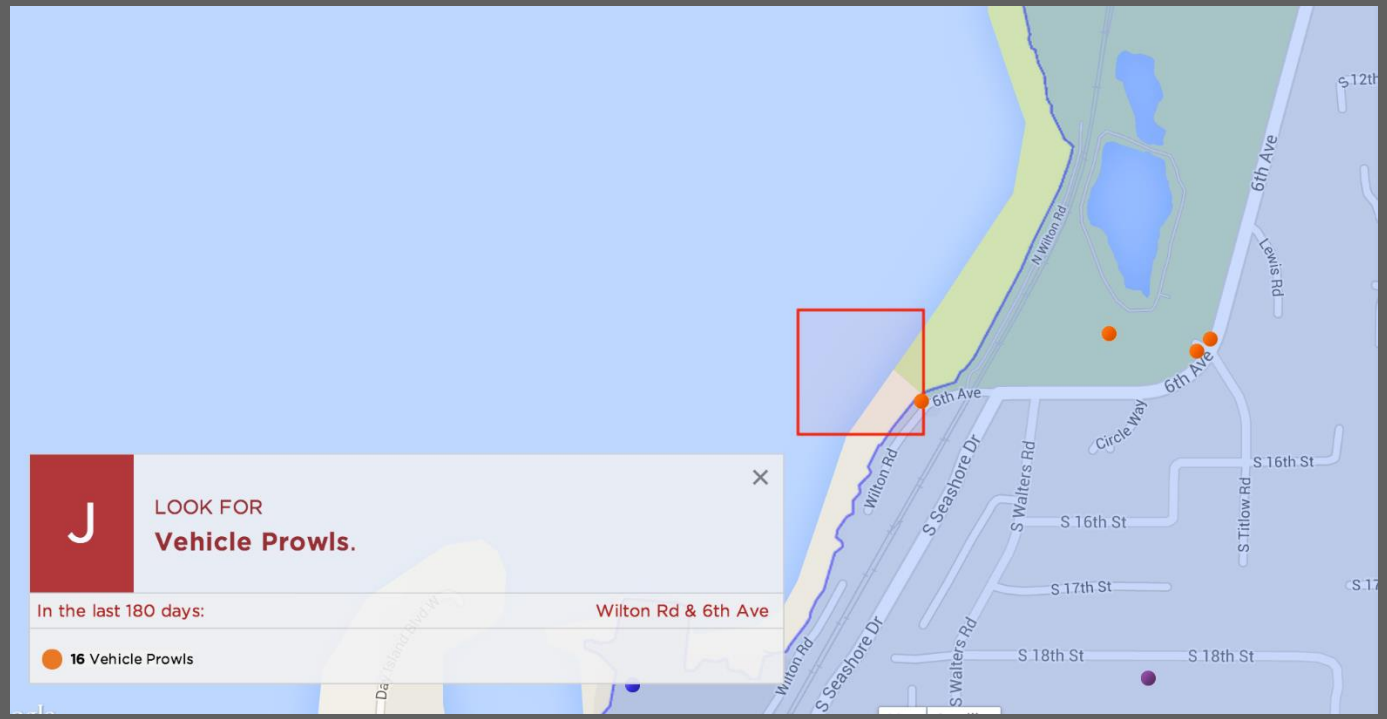
Location Address:	.1) 8025 S Hosmer St, Tacoma, WA 98408
Location Name:	
Contact Location:	
Recovery Location:	
CB/Grid/RD:	.1) 434 - Tacoma
Occurred From:	.1) 9/7/2013 13:00:00
Notes:	
Call Source:	.1) Dispatched
Phone Report:	.1) No
Insurance Letter:	.1) No
Entered On:	.1) 9/7/2013 16:05:50
Approved On:	.1) 9/7/2013 21:43:41
Adult/Juvenile Clearance:	
Additional Distribution:	

Offense Details: 1203 - Robbery - Business - Strongarm

Domestic Violence:	.1) No	Child Abuse:		Gang Related:	.1) No/Unknov
Completed:	.1) Completed			Crime Against:	.1) PR
Criminal Activity:					
Location Type:	.1) Parking Lot			Type of Security:	

Done

- Data quality!
- Fine-tuning geocoder
- PredPol needs 4 fields from incident report:
  - Date
  - Time
  - Location
  - Offense

Discrepancies traced back to poor data entry from Enforcer and Citizen Self-Service reports

WHY IS THERE ARE A BOX OVER THE WATER?